

CLAIMS

It is claimed:

1. A support mount to which stage equipment may be attached, the support mount comprising:

a means for accepting stage equipment, the means for accepting stage equipment including a base plate

a means for coupling included with the means for accepting, the means for coupling to secure the means for accepting to a rail.

2. The support mount of claim 1 wherein the means for coupling includes a cylindrical portion.

3. The support mount of claim 1 wherein the means for coupling is rotationally activated.

4. The support mount of claim 1 wherein the means for coupling comprises a "T" bolt.

5. The support mount of claim 1 wherein the means for coupling comprises a butterfly bolt.

6. The support mount of claim 1 wherein the means for coupling comprises means for aligning the means for coupling in the rail.

7. The support mount of claim 6 wherein the means for aligning is rotationally activated.

8. A support mount to which stage equipment may be attached, the support mount comprising:

- a base plate
- a mount device permanently attached to the base plate
- at least one knob assembly, the knob assembly including a knob, a stem and a bolt, the bolt secured into a cavity in the stem
- the support mount to be coupled to a rail by placing the bolt of the knob assembly into a channel in the rail and rotating the knob assembly.

9. The support mount of claim 8 wherein the cavity in the stem includes screw threads complementary to screw threads included on a cylindrical portion of the bolt.

10. The support mount of claim 8 wherein the bolt comprises

- a head
 - a collar
 - a cylindrical portion.
- 11.** The support mount of claim 10 wherein the head forms a “T” shape with the collar and the cylindrical portion.
- 12.** The support mount of claim 10 wherein the collar is a shape that serves as a cam when the bolt is rotated.

13. The support mount of claim 10 wherein the collar is a shape that serves as a cam when rotated such that the head becomes perpendicular to a channel opening in the rail then the knob assembly is rotated.

14. The support mount of claim 10 wherein the cylindrical portion includes screw threads complementary to screw threads included in the stem.

15. A support mount to which lighting equipment and stage equipment may be attached, the support mount comprising:

a base plate

a mount device permanently attached to the base plate

at least one knob assembly, the knob assembly including a knob, a stem and a t-bolt, the t-bolt to be secured into a cavity in the stem

the support mount to be coupled to a rail by placing the t-bolt of the knob assembly into a channel in the rail and rotating the knob assembly.

16. The support mount of claim 15 wherein the mount device is generally cylindrical.

17. The support mount of claim 15 wherein the mount device, the base plate and the rail are each constructed of a metal.

18. The support mount of claim 15 wherein the cavity in the stem includes screw threads complementary to screw threads included on a cylindrical portion of the t-bolt.

19. The support mount of claim 15 wherein the t-bolt comprises

a head

a collar

a cylindrical portion.

20. The support mount of claim 19 wherein the collar is a shape that serves as a cam when the t-bolt is rotated.

21. The support mount of claim 19 wherein the collar is a shape that serves as a cam when rotated such that the head becomes perpendicular to a channel opening in the rail then the knob assembly is rotated.

22. The support mount of claim 19 wherein the cylindrical portion includes screw threads complementary to screw threads included in the stem.

23. A support mount to which stage equipment may be attached, the support mount comprising:

a mount device

a base plate to which the mount device is permanently attached

a knob assembly including a knob, a stem and a t-bolt, the knob permanently secured to the stem, the t-bolt to be fastened into a cavity in the stem, the t-bolt including

a head

a collar

a cylindrical portion

the support mount to be attached to a rail by rotating the knob.

24. The support mount of claim 23 wherein the support mount is attachable to the rail by placing each of the heads of the t-bolts of the knob assemblies into a channel in the rail and rotating the knobs, the rotating causing the cylindrical portion to be drawn into a receiving cavity in the stem as the head of the t-bolt becomes flush with the underside of lips of the channel in the rail while the pin body is secured against the top of the rail.

25. The support mount of claim 24 further comprising a friction plate coupled to the side of the base plate that meets the rail.

26. A support mount to which lighting equipment and stage equipment may be attached, the support mount comprising:

a mount device

a base plate to which the mount device is permanently attached

at least one stem assembly, the stem assembly including a stem and a t-bolt, the t-bolt to be secured into a cavity in the stem

the support mount to be coupled to a rail by placing the t-bolt of the stem assembly into a channel in the rail and rotating the stems.

27. The support mount of claim 26 wherein the mount device is generally cylindrical.

28. The support mount of claim 26 wherein the mount device, the base plate, the stem assembly and the rail are each constructed of a metal.

29. The support mount of claim 26 wherein the cavity in the stem includes screw threads complementary to screw threads included on a cylindrical portion of the t-bolt.

30. The support mount of claim 26 wherein the stem has a shape that is one of circular, hexagonal, and square.

31. The support mount of claim 26 wherein the t-bolt comprises

a head

a collar

a cylindrical portion.

32. The support mount of claim 31 wherein the collar is a shape that serves as a cam when the t-bolt is rotated.

33. The support mount of claim 31 wherein the collar is a shape that serves as a cam when rotated such that the head becomes perpendicular to a channel opening in the rail then the knob assembly is rotated.

34. The support mount of claim 31 wherein the cylindrical portion includes screw threads complementary to screw threads included in the stem.

35. A method of supporting stage equipment comprising:

coupling a rail to a wall

placing a support mount into at least one channel in the rail

rotating at least one knob assembly included in the support mount to quickly

easily secure the support mount to the rail

attaching a stage apparatus a mount device included with the support mount.

- 36.** The method of claim 35 wherein the support mount is the support mount of claim 8.
- 37.** The method of claim 35 wherein the support mount is the support mount of claim 15.
- 38.** The method of claim 35 wherein the support mount is the support mount of claim 23.